



MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identification

Supplier:

IBM Corporation
New Orchard Road
Armonk, New York 10504
U.S.A.

For Emergency Source Information

International Emergency Number:
1-303-739-1111
U.S.A. Emergency Number: 1-800-426-4333

Product Name:

Infoprint Color 1354 Toner Cartridge, Cyan
Infoprint Color 1354 High Yield Toner Cartridge, Cyan
Infoprint Color 1354 IBM Return Program Toner Cartridge, Cyan
Infoprint Color 1354 IBM Return Program High Yield Toner Cartridge, Cyan
IBM Infoprint Color 1454 Cyan Toner Cartridge
IBM Infoprint Color 1464 Cyan Toner Cartridge

Product Trade Names and Synonyms: IBM 4924 Cyan Toner Cartridge

IBM Part Numbers: 75P4044, 75P4048, 75P4052, 75P4056

IBM Material Reference Number: 940143040

Chemical Family: Toner Cartridge

MSDS Preparation Date: 9/30/03 **MSDS Revision Date:** 20 September 2004

Section 2 – Composition / Information on Ingredients

| Component | CAS No. | Percentage | OSHA PEL | ACGIH TLV |
|---|----------------|-------------------|-----------------|------------------|
| Polyester Resin NJTSRN 80100451-5020 | Trade Secret | 82-88 | None | None |
| Copolyester Resin 561 NJTSRN 80100451-5019 | Trade Secret | 3-12 | None | None |
| Pigment Blue 15:3 | 147-14-8 | 1-6 | None | None |
| Amorphous Silica (modified) NJTSRN 80100451-5015 | Trade Secret | 2-7 | None | None |
| Charge Control Agents NJTSRN 80100451-5017 NJTSRN 80100451-5018 | Trade Secret | <2.5 | None | None |

Section 3 – Hazards Identification

The following information is based on testing of the product as a whole and/or characteristics of components.

Primary Routes of Exposure: Dust inhalation, skin contact.

Potential Health Effects:

Skin: Not an irritant. Low dermal toxicity. Not a dermal sensitizer.

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Eye: Toner may act as a mechanical irritant.

Inhalation: Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Exposure not probable with intended use.

Ingestion: Low acute oral toxicity. Exposure not probable with intended use.

Conditions Aggravated by Exposure: Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

Carcinogen Status:

OSHA: N

IARC: N

NTP: N

Classification of Hazard Levels (NFPA Ratings):

| <u>Hazardous Component</u> | <u>Health</u> | <u>Flammability</u> | <u>Reactivity</u> | <u>Special Information</u> |
|----------------------------|---------------|---------------------|-------------------|----------------------------|
| Toner (mixture) | 1 | 1 | 0 | NA |

Section 4 – First Aid Measures

Inhalation: If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Should irritation occur, seek medical attention.

Eye Contact: Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Note to Physician: No specific antidote.

Section 5 – Fire Fighting Measures

Means of Extinction: Carbon dioxide, water spray or fog, dry chemical or foam.

Protective Equipment for Fire-Fighting: Fire fighters should wear full protective clothing, including self-contained breathing apparatus, if a large number of cartridges are involved.

Flash Point (Method): Solid, not applicable.

Lower Flammable (Explosive) Limit: Not determined.

Upper Flammable (Explosive) Limit: Not determined.

Autoignition Temperature: Not applicable.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, unidentified organics.



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Special Exposure Hazards: Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion.

Section 6 – Accidental Release Measures

Procedures to be Followed in Case of Leak or Spill: If a dust cloud is possible due to a spill, remove all sources of ignition such as open sparks, flames, or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dustpan. Contain for disposal. Oil permeated sweeping compound may be useful in cleaning up spills.

Personal Precautions: None required for intended use in printer.

Environmental Precautions: Disposal is subject to national, state, regional, or provincial regulations.

Section 7 – Handling and Storage

Precautions for Safe Handling and Use: To avoid damage to cartridge and accidental contact with toner KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage: Store in a cool, dry place.

Section 8 – Exposure Controls/Personal Protection

Exposure Limits/Guidelines: See Section 2.

In Canada, consult local authorities for acceptable provincial values.

Engineering Controls (Ventilation): None required. Use in a well ventilated area.

Personal Protective Equipment:

Respiratory Protection: None required for intended use in printer.

Hand/Skin Protection: None required for intended use in printer.

Eye Protection: None required for intended use in printer.

Section 9 – Physical and Chemical Properties

Color: Cyan

Physical State: Solid powder

Odor: Faint plastic-like odor

Vapor Density: Not applicable

Freezing Point: Not applicable

Melting Point: Not determined

Specific Gravity: Not determined

Evaporation Rate: Not applicable

Solubility in Water: Insoluble



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Percent Volatile: Not determined

Pressurized (Y/N): N

Section 10 – Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: High temperatures and flame.

Materials to Avoid/Incompatibility: Strong oxidizers.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, unidentified organics.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Primary Routes of Exposure: Inhalation of dust, skin contact.

Inhalation: Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur.

Ingestion: Low acute oral toxicity. Exposure not probable with intended use.

Toxicity Data:

LD₅₀ (Rat, Oral): >5000 mg/kg

Carcinogenicity: Neither this product nor any of its components present above 0.1% are listed by IARC, NTP, or OSHA as known carcinogens.

Section 12 – Ecological Information

Mobility: Not determined.

Persistence and Degradability: Not determined.

Bioaccumulative Potential: Not determined.

Section 13 – Disposal Considerations

Disposal Methods/Waste Disposal: This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste.



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Observe all federal, regional, and local regulations when disposing of this product.
Contact local waste vendors for proper disposal.

Section 14 – Transport Information

| | Proper Shipping Name | Hazard Class | UN/ID Number | Packing Group | Special Provisions | Exceptions |
|---------------------|----------------------|--------------|--------------|---------------|--------------------|------------|
| TDG (Canada) | Not regulated. | | | | | |
| DOT (US) | Not regulated. | | | | | |

Mexico/Latin America

Regulations for Land Transportation of Hazardous Materials and Wastes: Not available.

United Nations Recommendations on the Transport of Dangerous Goods: Not available.

NOM-004-SCT2-1994: Not available.

North American Emergency Response Guide: Not regulated.

Section 15 – Regulatory Information

Canada

WHMIS Classification: Not controlled – manufactured article.

United States

TSCA Regulations:

TSCA Inventory Status: Y

State Regulations:

California Proposition 65: This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm – California Proposition 65.

Section 16 – Other Information

MSDS Prepared By: IBM Printing Systems Division

MSDS Preparer's Address: Boulder, Colorado, USA

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